
 CARLO GAVAZZI SPACE SpA	<h1>AMS02-PDS</h1>	DOC N°: PDS-RP-CGS-008 ISSUE : 1 DATE: 26/05/2008 PAGE : 1 of 3
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INSPECTION REPORT

APPLICABLE DOC. REF. AMS02-PDS PFM Manufacturing and Inspection Plan PDS-PL-CGS-001 is. 1	PROC. REF. N.A.
ITEM INSPECTED (Name, P/N, S/N) AMS02-PDS PFM – Esem 1-A Board Assy p/n:11-AMS02PDS-600.00 s/n:01 (pcb s/n:2639.2), Esem 1-A PIGGY BACK Assy p/n:11-AMS02PDS-610.00 s/n:07-032/B — Inspection Point.	
REQUIREMENT SATISFIED Manufacturing according to aerospace standards	
INSPECTION (Action/Results)	
<u>DESCRIPTION</u> Inspection was performed at Carlo Gavazzi Space premises starting on 26 May 2008 and was carried out on the following boards, detail of the inspected boards were below reported: <ol style="list-style-type: none"> 1) Esem 1-A Board Assy p/n:11-AMS02PDS-600.00 s/n:01 (pcb s/n:2639.2). 2) Esem 1-A PIGGY BACK Assy p/n:11-AMS02PDS-610.00 s/n:07-032/B. 	
<u>HARDWARE REVIEW</u> 1) Esem 1-A Board Assy p/n:11-AMS02PDS-600.00 s/n:01 (pcb s/n:2639.2), Assy:11-AMS02PDS-600.00 rev./, Parts List:11-AMS02PDS-600.01 rev.A, Electrical Scheme:11-AMS02PDS-600.02 rev./, Master PCB: FSL-010110-DR-03-CGS rev./. The following NCR were presented during the inspection: <ul style="list-style-type: none"> • NCR-PDS-CGS-C-001(electronic components assembly problems), NCR classified "minor" is closed. • NCR-PDS-CGS-C-023(over voltage protection missing), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. • NCR-PDS-CGS-C-024(electrical problem on Esem 1-A power cells controllers), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added two capacitors with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. • NCR-PDS-CGS-C-037(assembly of inductances not clear), NCR classified "minor" is closed. The following PLVS (Parts List Variation Sheet) were presented during the inspection: <ul style="list-style-type: none"> • 11-AMS02PDS-600.01 rev A - A1 can be considered closed. • 11-AMS02PDS-600.01 rev A - A2 can be considered closed. • 11-AMS02PDS-600.01 rev A - A3 can be considered closed. The H/W has been visually inspected and is ok:no damage, visible clean is ok.	
Operator	Quality Assurance
Signature Date	C.C. <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <i>E. FRANCINI</i> 26/05/08 </div> <div style="text-align: center;"> <i>C. CINQUEPACCHI</i> <i>e. Cinquepacci</i> 10/06/08 </div> </div>

 <p>CARLO GAVAZZI CARLO GAVAZZI SPACE SpA</p>	<p>AMS02-PDS</p>	<p>DOC N°: PDS-RP-CGS-008</p> <p>ISSUE : 1 DATE: 26/05/2008</p> <p>PAGE : 2 of 3</p>
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INSPECTION REPORT

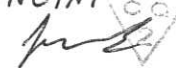
<p>APPLICABLE DOC. REF. See page 1</p>	<p>PROC. REF. See page 1</p>
<p>ITEM INSPECTED (Name, P/N, S/N) See page 1</p>	
<p>REQUIREMENT SATISFIED See page 1</p>	
<p>INSPECTION (Action/Results)</p> <p>2) Esem 1-A PIGGY BACK Assy p/n:11-AMS02PDS-610.00 s/n:07-032/B, Assy:11-AMS02PDS-610.00 rev./, Parts List:11-AMS02PDS-610.01 rev.A, Electrical Scheme:11-AMS02PDS-610.02 rev./, Master PCB:11-AMS02PDS-610.03 rev./.</p> <p>The following NCR was presented during the inspection:</p> <ul style="list-style-type: none"> NCR-PDS-CGS-C-027(over voltage protection missing), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. <p>The following PLVS (Parts List Variation Sheet) were presented during the inspection:</p> <ul style="list-style-type: none"> 11-AMS02PDS-610.01 rev A – A1 can be considered closed. 11-AMS02PDS-610.01 rev A – A2 can be considered closed. 11-AMS02PDS-610.01 rev A – A3 can be considered closed. 11-AMS02PDS-610.01 rev A – A4 can be considered closed. <p>On the pcb the following components are not mounted:</p> <ul style="list-style-type: none"> U35 (AD590). U6 (A1020B-CQ84B FPGA). <p>The H/W has been visually inspected and is ok:no damage, visible clean is ok.</p>	
<p>Operator</p> <p>Signature Date</p>	<p>Quality Assurance</p> <p>C.C.</p>

E. FRANCINE
26/05/08

C. CINQUERACH
C. cinquereach
10/06/08

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<p>CONCLUSION</p> <p>All solder joints are of adequate quality, the soldering process complies to ECSS-Q-70-08 and ECSS-Q-70-38, all modifications are performed according to ECSS-Q-70-28.</p> <p>The open points are here listed:</p> <ol style="list-style-type: none"> 1) On Esem 1-A Board Assy p/n:11-AMS02PDS-600.00 s/n:01 (pcb s/n:2639.2), NCR-PDS-CGS-C-023(over voltage protection missing), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 2) On Esem 1-A Board Assy p/n:11-AMS02PDS-600.00 s/n:01 (pcb s/n:2639.2), NCR-PDS-CGS-C-024(electrical problem on Esem 1-A power cells controllers), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added two capacitors with adhesive EC 2216 B/A, perform a visual inspection of the previous rework 3) On Esem 1-A PIGGY BACK Assy p/n:11-AMS02PDS-610.00 s/n:07-032/B, NCR-PDS-CGS-C-027(over voltage protection missing), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 4) On Esem 1-A PIGGY BACK Assy p/n:11-AMS02PDS-610.00 s/n:07-032/B, the components U35 (AD590) and U6 (A1020B-CQ84B FPGA) are not mounted. 	
Operator Signature Date	Quality Assurance E. FRANCINI 26/05/08  C.C. S.
C.C. C. CINQUEPACCHI C. Cinquini 10/06/08	